

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently amended) A method for logging updates to a plurality of data records into discrete pages in non-volatile storage, wherein a page partially full of data is known as a partial page, said method comprising the steps of:

establishing identical partial pages I and I+1 at the earliest opportunity,
in response to a data segment D larger than the remaining space of a most recent updated partial page I, partitioning D into a first segment D1 sufficient to fill the remaining space of page I and a second data segment D2,

~~filling~~ filling page I with a first write operation of its present contents concatenated with D1, and

creating identical partial pages I+1 and I+2 with a single, second write operation of D2 to both pages, whereby pages I+1 and I+2 become the new pages I and I+1 for the next logging operation,

wherein in response to successive data segments D, the first of which is smaller than the remaining space of the most recently updated partial page I, writing page I+1 to the ~~present contents~~ present contents of page I concatenated with D, and thereafter alternating this procedure between pages I and I+1 until a data segment X fills the remaining space of the page containing the most recent update, and at that point writing page I to the value of the most recent update concatenated with the new segment X in a first write operation and writing any remaining part of segment X into both pages I+1 and I+2 in a second write operation.

2. (Canceled)

3. (Previously presented) The method of claim 1 comprising the step of:
in response to successive data segments D, the first of which is smaller than the remaining space of the most recently updated partial page I, writing I+1 to the present contents of page I concatenated with D, and thereafter continuing this procedure into successive pages I+2 , I+3, etc. until a data segment X fills the remaining space of the page containing the most recent update, and at that point writing page I to the value of the most recent update concatenated with the new segment X in a first write operation and writing any remaining part of segment X into both pages I+1 and I+2 in a second write operation.
4. (Currently amended) Apparatus for logging updates to a plurality of data records into discrete pages in non-volatile storage, wherein a page partially full of data is known as a partial page, comprising:
means for establishing identical partial pages I and I+1 at the earliest opportunity;
means responsive to a data segment D larger than the remaining space of a most recent updated partial page I for partitioning D into a first segment D1 sufficient to fill the remaining space of page I and a second data segment D2,
means for filling page I with a first write operation to its present contents concatenated with D1, and
means for updating with a second write operation both pages I+1 and I+2 to D2, whereby pages I+1 and I+2 become the new pages I and I+1 for the next logging operation,
wherein means responsive to successive data segments D, the first of which is smaller than the remaining space of the most recently updated partial page I for writing page I+1 to the present contents of page I concatenated with D, and means for thereafter alternating this procedure between pages I and I+1 until a data segment X fills the remaining space of the page containing the most recent update, and means for writing page I to the contents of the page containing the most recent ~~updated~~ update concatenated with the last received data segment X.

5. (Canceled)

6. (Currently amended) The apparatus of claim 4 further comprising:

means responsive to successive data segments D, the first of which is smaller than the remaining space of the most recently updated partial page I for writing page I+1 to the ~~present contents~~ present contents of page I concatenated with D, and means for thereafter continuing this procedure into successive pages I+2, I+3, etc. until a data segment X fills the remaining space of the page containing the most recent update, and means for writing page I to the contents of the page containing the most recent update concatenated with the last received data segment X.

7. (Previously presented) A storage medium for storing computer program instructions that when loaded into a computer performs the steps of claim 1.

8. (Previously presented) A carrier wave containing computer program instructions that when loaded into a computer performs the steps of claim 1.